ORDER NO. RD82065284A4

Service Manual

FM-AM-FM Stereo
Radio Cassette Recorder

Radio Cassette
RX-5025

Please use this manual together with the service manual for model No. RX-5025, order No. RD82045262C1.

CHANGES

■ SPECIFICATIONS

General:

Power Requirement: AC: 120V, 60Hz
Power Consumption: 10W (AC Only)

[Model RX-5025]

➡

AC: 110~115/115~127/200~220/230~250V, 50/60Hz
16W (AC Only)

[Model RX-5025 (RD82065284A4)]

■ REPLACEMENT PARTS LIST

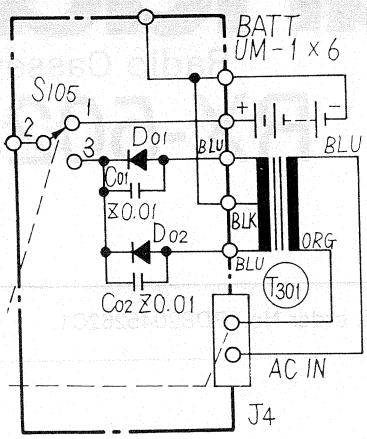
NOTE: Important safety notice.
Componets identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Ref. No.	Change of Part No.		Description	Per Set	Remarks	Price
	RX-5025 ➡	RX-5025 (RD82065284A4)				
D03, 04	——	RVDSM1A02LFA	Diode (Si)	2		
T301	RLT5K3M1A	RLT5K324B	Power Transformer	1	⚠	
CF1	SFM107MA5	SFE107MA5	Ceramic Filter	1		
S8	——	RSR4A06Z	Switch, Voltage Selector	1	⚠	
C03, 04	——	ECKD1H103ZF	0.01μF, 50V, Ceramic	2		
K2	RYFX5025M7	RYFX5025FE7	Rear Cabinet Ass'y	1		
E27	RUV598Z	——	Remove			
E28	RUV599Z	——	Remove			
	——	RUV387Z	Cover, Voltage Selector	1	⚠	

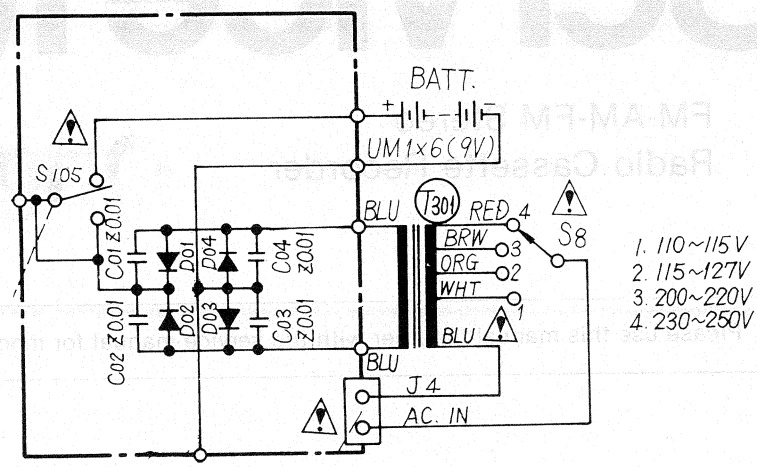
Panasonic

Panasonic Tokyo
Matsushita Electric Industrial Co., Ltd.
1-2, 1-chome, Shibakoen, Minato-ku, Tokyo 105 Japan

■ SCHEMATIC DIAGRAM

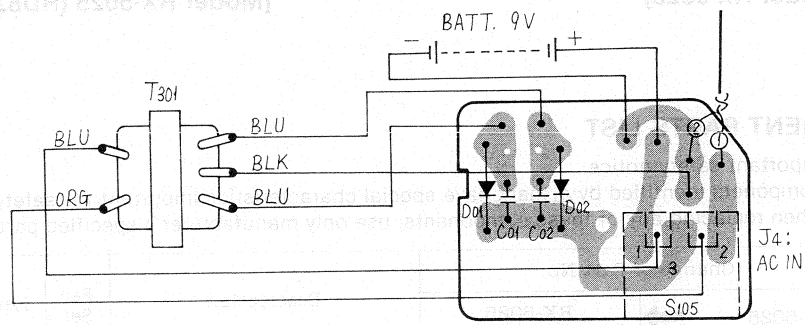


[Model RX-5025]

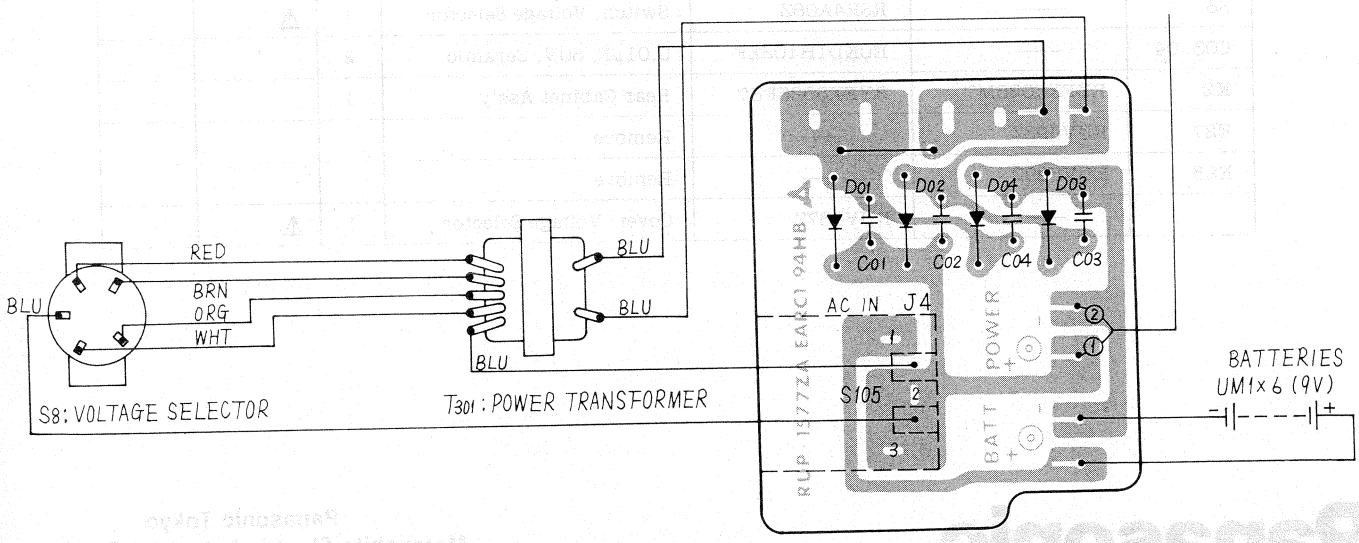


[Model RX-5025 (RD82065284A4)]

■ CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



[Model RX-5025]



[Model RX-5025 (RD82065284A4)]

RD Ⓗ FE, ES
Printed in Japan

ORDER NO. RD82045262C1

Service Manual

Radio Cassette

RX-5025

FM-AM-FM Stereo Radio Cassette Recorder

■ SPECIFICATIONS

General:

Power Requirement:	AC; 120V, 60Hz Battery; 9V (Six "D" Size Flashlight Batteries) (Panasonic UM-1 or equivalent)
Power Consumption:	10W (AC only)
Power Output:	7W (3.5W×2)...RMS (max.)
Speaker:	Woofer; 12cm (5") PM Dynamic Speaker (3Ω) Tweeter; 3cm ($1^1/_4$") Ceramic Speaker (300Ω)
Input:	MIC; sensitivity 0.25mV/applicable microphone impedance 200~600Ω Line in; sensitivity 200mV/50kΩ over
Output:	Line out; sensitivity 0.42V/10kΩ under Headphones; 8Ω
Dimensions:	484mm(W)×249mm(H)×155mm(D) ($19^1/_6$×$9^{13}/_{16}$×$6^1/_8$)"
Weight:	3.4kg (7 lb. 8 oz.) without batteries

Radio Section:

Radio Frequency Range:	FM; 88~108MHz AM; 525~1610kHz
Intermediate Frequency:	FM; 10.7MHz AM; 455kHz
Sensitivity:	FM; 2.5μV/50mW output AM; 100μV/m/50mW output

Tape Deck Section:

Frequency Response:	60~10,000Hz (with normal tape) 60~11,000Hz (with CrO_2 tape)
Recording system:	AC bias, Magnet erase
Tape Speed:	4.8cm/s, ($1^7/_8$ ips)
Wow and Flutter:	0.3% (WRMS)
Program Time:	1 hour with C-60 cassette tape
Track System:	4-track 2 channel stereo recording and playback

Specifications are subject to change without notice.

Panasonic®

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Carolina, Puerto Rico 00630

LOCATION OF CONTROLS AND COMPONENTS

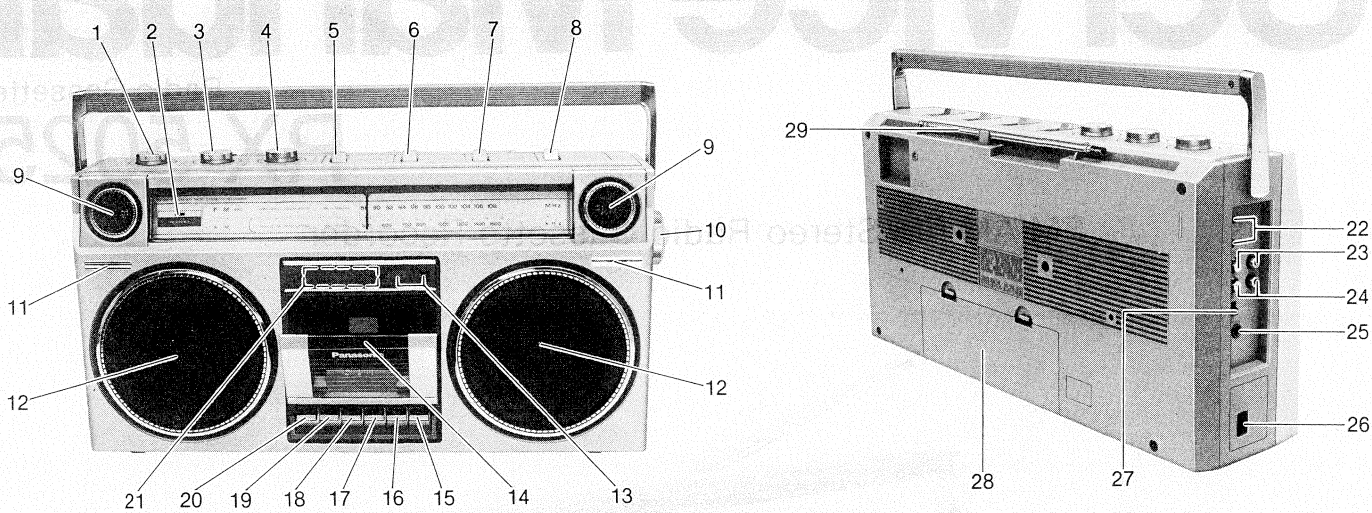

Fig. 1

1. Tone Control (TONE)
2. FM Stereo Indicator (FM STEREO)
3. Balance Control (BALANCE)
4. Volume Control (VOLUME)
5. Function Selector (Tape/Radio/Line in)
6. Tape Selector (Normal/CrO_2)
7. Meter Selector (Battery/Level)
8. Band Selector (FM ST/FM/AM)
9. Tweeters (Treble Speakers) 3cm ($1^1/_4$") 300Ω
10. Tuning Control (TUNING)
11. Built-in Microphones (MIC)
12. Woofers (Bass Speakers) 12cm (5") 3Ω
13. Tape Counter (COUNTER) and Reset Button (RESET)
14. Cassette Compartment
15. Pause/Eject Button (PAUSE/EJECT)
16. Stop Button (STOP)
17. Fast Forward/Cue Button (FF/CUE)
18. Rewind/Review Button (REW/REVIEW)
19. Playback Button (PLAY)
20. Record Button (RECORD)
21. LED Level/Battery Indicator (LEVEL/BATTERY)
22. Microphone Jacks (MIC) 0.25mV/200~600Ω
23. Line Input Jacks (LINE IN) 200mV/50kΩ over
24. Line Output Jacks (LINE OUT) 420mV/10kΩ under
25. Headphone Jack (PHONES) 8Ω
26. AC Socket (AC IN~)
27. Beat Proof Switch (BEAT PROOF I/II)
28. Battery Compartment
29. Telescopic Antenna

DISASSEMBLY INSTRUCTIONS

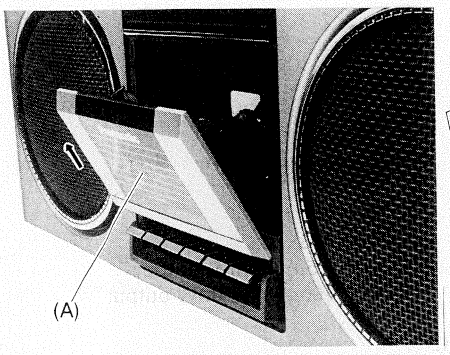

Fig. 2

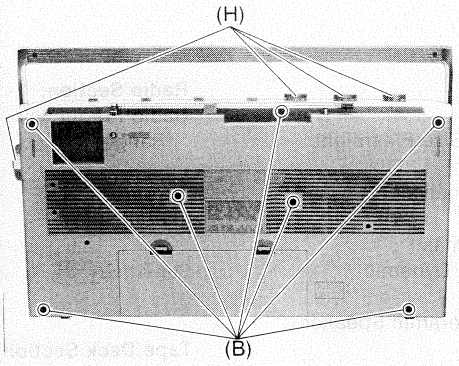

Fig. 3

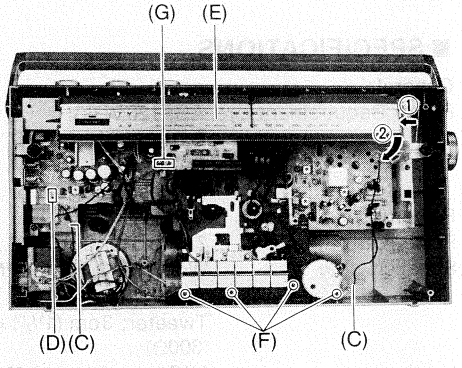

Fig. 4

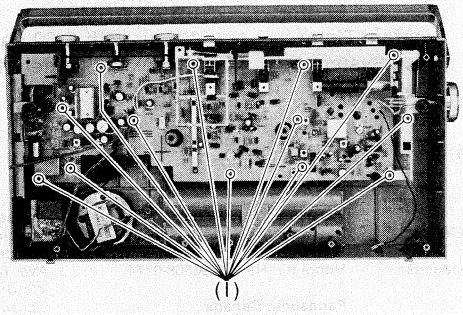

Fig. 5

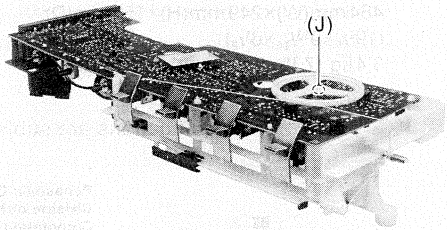

Fig. 6

Procedure	To remove —.	Remove —.	Shown in Fig. —.
1	Front Cabinet (*1)	Cassette compartment .....(A)×1	2
2		Screw (3×45) .....(B)×7	3
3		Socket (1 pin) .....(C)×2	4
4		Socket (3 pin) .....(D)×1	4
5	Dial Scale (*2)	Dial Scale .....(E)×1	4
6	Mechanism	Screw (3×40) .....(F)×4	4
7		Socket .....(G)×1	4
8	Circuit Board	Knob .....(H)×4	3, 5
9		Screw .....(I)×13	
10	Dial chassis	Screw .....(J)×1	6

*1. Insert the Cassette Arm with Pushing the Spring to Cassette Arm Holder Fig. 7.
*2. • Push the catch in the direction of arrow ① and pull up the dial scale Fig. 4.
• Remove the dial scale in the direction of arrow ②.

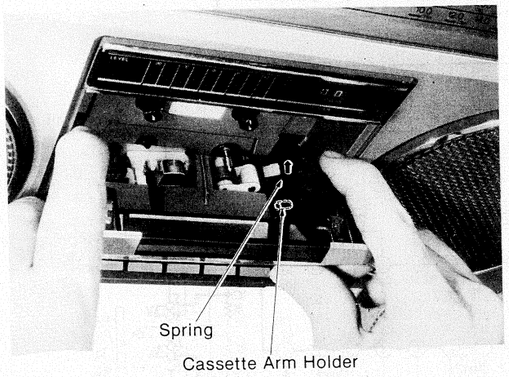

Fig. 7

■ ALIGNMENT POINTS

* Please refer to Circuit Board which is located test points.

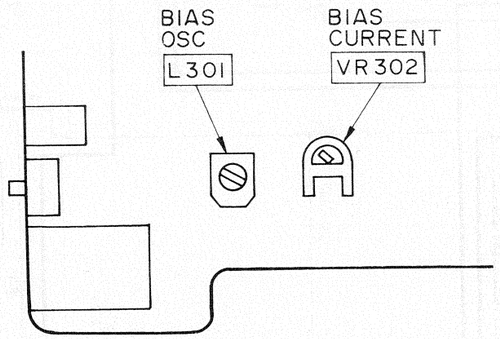

Fig. 8

■ DIAL THREADING

Cord length is 100cm ($39^{3}/_{8}$")

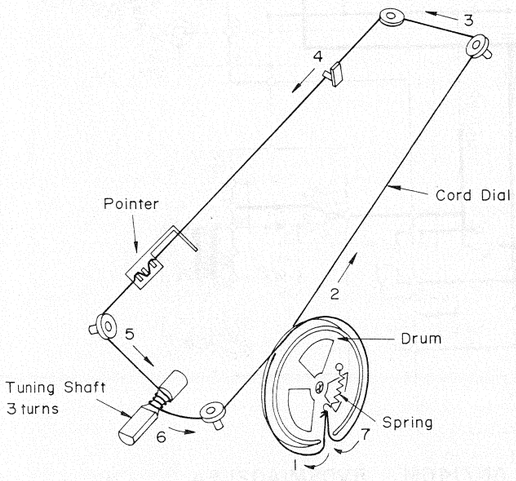

Fig. 10

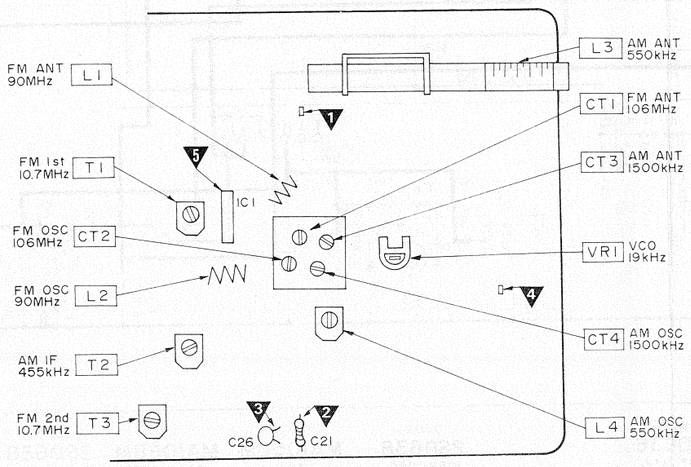

Fig. 9

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set tone control to treble.
3. Set band switch to AM or FM.
4. Set balance control to center.
5. Set tape/radio/line selector to radio.
6. Set power source voltage to 9V DC.
7. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM, FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		AM-IF ALIGNMENT					
(1)	AM	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mod. at 400Hz	Point of non-interference. (on/about 600kHz)	Output meter across voice coil.	T2 (AM IFT)	Adjust for maximum output.
		AM-RF ALIGNMENT					
(2)	AM	"	550kHz	550kHz [11.0mm ($^{7}/_{16}$")]	Output meter across voice coil.	L4 (AM OSC Coil) (*1) L3 (AM ANT Coil)	Adjust for maximum output. Adjust L3 by moving coil bobbin along ferrite core.
(3)	AM	"	1,500kHz	1,500kHz [100mm ($3^{15}/_{16}$")]	"	CT4 (AM OSC Trimmer) CT3 (AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
	(*1) Cement antenna bobbin with wax after completing alignment.						
		FM-IF ALIGNMENT					
(4)	FM	Connect to test point ⑤ through 0.001μ. Negative side to test point ⑥.	10.7MHz (SWP.)	Point of non-interference. (on/about 90MHz)	Connect vert. amp. of scope to test point ③. Negative side to test point ⑦.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 12.)
(5)	FM	"	"	"	"	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 13.)
		FM-RF ALIGNMENT					
(6)	FM	Connect to test point ① through FM dummy antenna. Negative side to test point ⑥.	90MHz	90MHz [13.6mm ($^{17}/_{32}$")]	Output meter across voice coil.	L2 (FM OSC Coil) L1 (FM ANT Coil)	(*2) Adjust for maximum output.
(7)	FM		106MHz	106MHz [93.5mm ($3^{11}/_{16}$")]	"	CT2 (FM OSC Trimmer) CT1 (FM ANT Trimmer)	(*2) Adjust for maximum output. Repeat steps (6) and (7).
	(*2) Three output responses will be present; proper tuning is the center frequency.						

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	90MHz, 60dB (CW Mod)	④ ...(+) ⑦ ...(−)	VR1	19kHz	Adjust VR1, for 19kHz (±150Hz) reading on electronics counter.

■ AUDIO ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8kHz, −20dB)	across voice coil	Maximum output.	Azimuth screw	Playback mode
Bias oscillation frequency	——	101 ...(+) 102 ...(−)	70±3kHz	L301	Record mode Beat proof switch → II Tape selector → CrO_2
Bias current	Use metal tape	101 ...(Lch) 201 ...(Rch) 102 ...(−) Lch 202 ...(−) Rch	5~7mV	VR302	Record mode Beat proof switch → II Tape selector → Normal

n Fig. —.
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ted test points.

S
RENT
302

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set tone control to treble.
3. Set band switch to AM or FM.
4. Set balance control to center.
5. Set tape/radio/line selector to radio.
6. Set power source voltage to 9V DC.
7. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM, FM ALIGNMENT

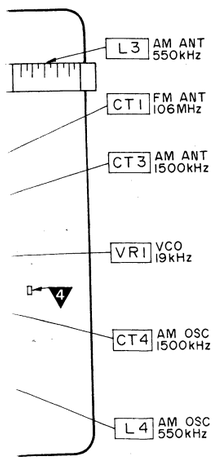
	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
			AM-IF ALIGNMENT				
(1)	AM	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mod. at 400Hz	Point of non-interference. (on/ about 600kHz)	Output meter across voice coil.	T2 (AM IFT)	Adjust for maximum output.
			AM-RF ALIGNMENT				
(2)	AM	〃	550kHz	550kHz [11.0mm ($^{7}/_{16}$")]	Output meter across voice coil.	L4 (AM OSC Coil) (*1) L3 (AM ANT Coil)	Adjust for maximum output. Adjust L3 by moving coil bobbin along ferrite core.
(3)	AM	〃	1,500kHz	1,500kHz [100mm ($3^{15}/_{16}$")]	〃	CT4 (AM OSC Trimmer) CT3 (AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
	(*1) Cement antenna bobbin with wax after completing alignment.						
			FM-IF ALIGNMENT				
(4)	FM	Connect to test point ▼5 through 0.001μ. Negative side to test point ▼6.	10.7MHz (SWP.)	Point of non-interference. (on/ about 90MHz)	Connect vert. amp. of scope to test point ▼3. Negative side to test point ▼7.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 12.)
(5)	FM	〃	〃	〃	〃	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 13.)
			FM-RF ALIGNMENT				
(6)	FM	Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼6.	90MHz	90MHz [13.6mm ($^{17}/_{32}$")]	Output meter across voice coil.	L2 (FM OSC Coil) L1 (FM ANT Coil)	(*2) Adjust for maximum output.
(7)	FM		106MHz	106MHz [93.5mm ($3^{11}/_{16}$")]	〃	CT2 (FM OSC Trimmer) CT1 (FM ANT Trimmer)	(*2) Adjust for maximum output. Repeat steps (6) and (7).
	(*2) Three output responses will be present; proper tuning is the center frequency.						

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	90MHz, 60dB (CW Mod)	▼4 ...(+) ▼7 ...(−)	VR1	19kHz	Adjust VR1, for 19kHz (±150Hz) reading on electronics counter.

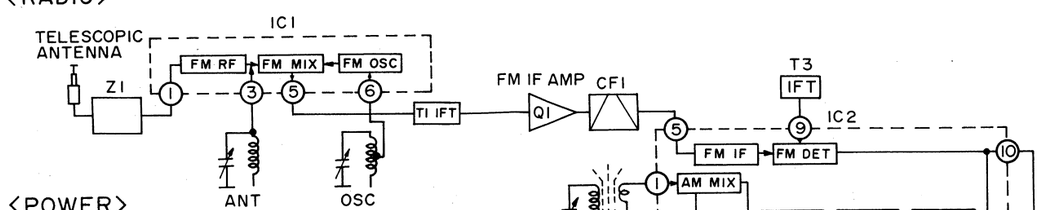
■ AUDIO ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8kHz, −20dB)	across voice coil	Maximum output.	Azimuth screw	Playback mode
Bias oscillation frequency	——	▼101 ...(+) ▼102 ...(−)	70±3kHz	L301	Record mode Beat proof switch → II Tape selector → CrO_2
Bias current	Use metal tape	▼101 ...(Lch) ▼201 ...(Rch) ▼102 ...(−) Lch ▼202 ...(−) Rch	5∼7mV	VR302	Record mode Beat proof switch → II Tape selector → Normal

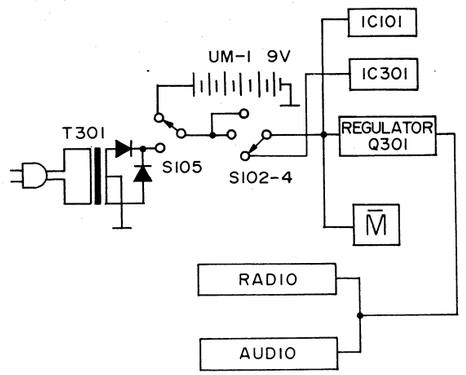


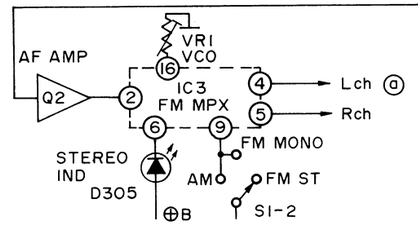
BLOCK DIAGRAM

<RADIO>

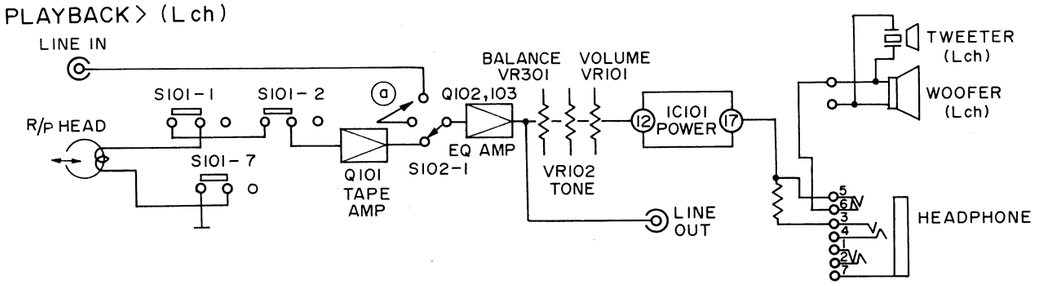


<POWER>





<PLAYBACK> (Lch)



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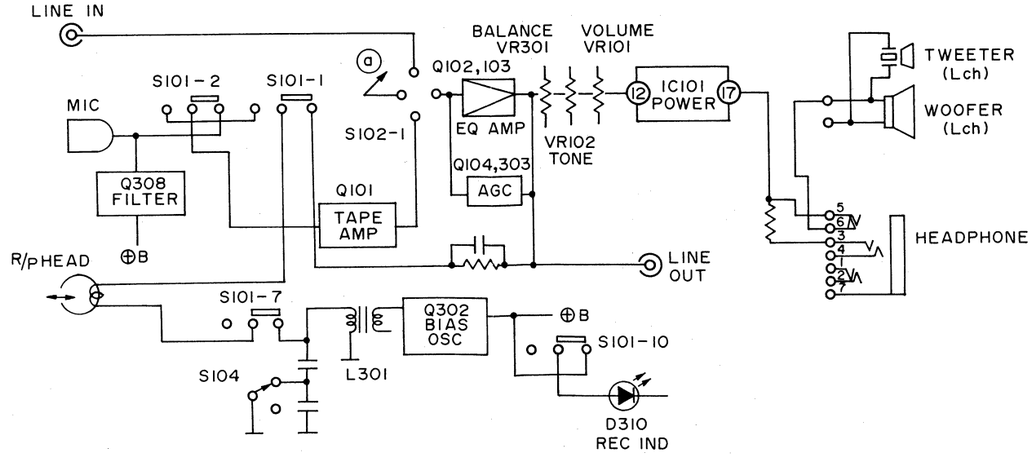


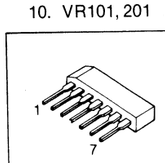
Fig. 11

SCHEMATIC DIAGRAM MOI

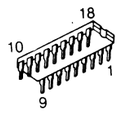
Notes:

1. S1-1, S1-2 .....Band switch in "FM ST" position. (1...AM, 2...FM, 3...FM ST).
2. S101-1~S101-10....Record/playback switch in "playback" position.
3. S102-1~S102-4 ...Function switch in "TAPE" position. (1...TAPE, 2...RADIO, 3...LINE).
4. S103-1, S103-2 .....Tape select switch in "NORMAL" position. (1...NORMAL, 2...CrO_2).
5. S104 .....Beat proof switch in "I" position. (1...I, 2...II).
6. S105 .....AC/DC IN select switch in "DC IN" position.
7. S106-2 .....Motor ON/OFF switch in "OFF" position.
8. S107 .....Meter switch in "BATT" position. (1...BATT, 2...LEVEL).
9. VR1 .....VCO oscillator frequency adjustment VR.
10. VR101, 201 .....Volume control VR.
11. VR102, 202 .....Tone control VR.
12. VR301 .....Balance control VR.
13. VR302 .....Bias current adjustment VR.
14. The mark (▼) shows test point e.g. ▼ = test posint 1.
15. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    [ ]...FM position, ( )...AM position.
    < >...Recording position, (( ))...FM ST position.
16. Battery current: No signal 190mA
    Maximum output (radio) 1A
    Maximum output (tape) 1.03A

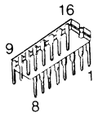
17. Important safety notice
    The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards.
    When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.



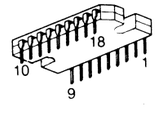
IC1



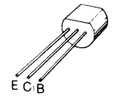
IC2



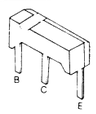
IC3, 301



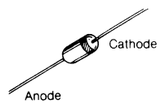
IC101



Q104, 204

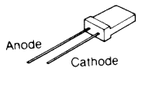


Q1, 2, 101, 102, 103, 105, 201, 202, 203, 205, 301, 302, 308

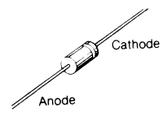


D1, 2, 101, 102, 201, 203, 303, 306

D301, 304

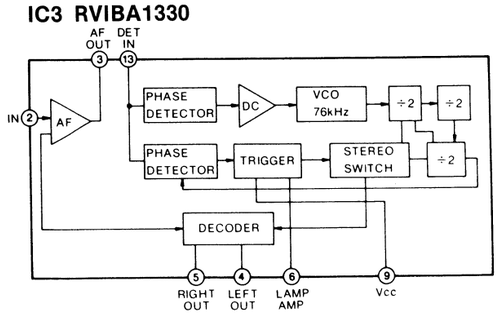


D305

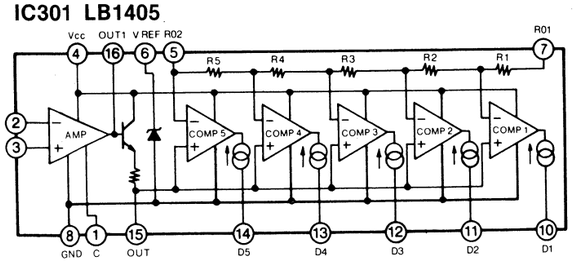


D01, 02

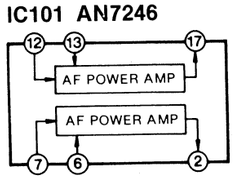
IC3 RVIBA1330



IC301 LB1405



IC101 AN7246



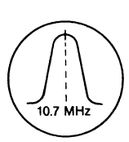
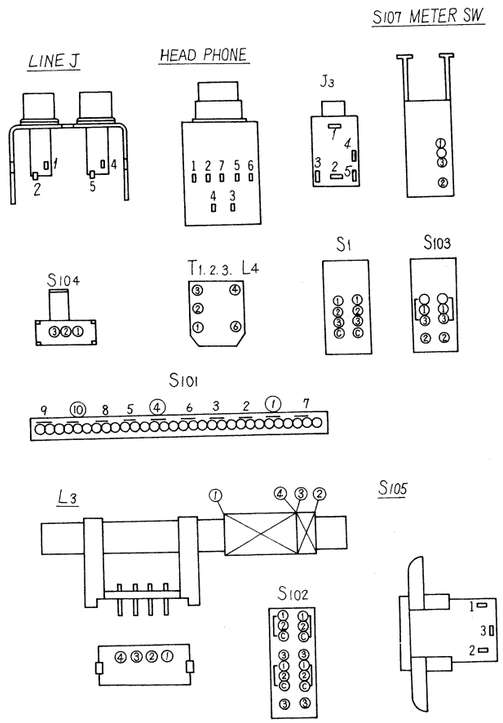
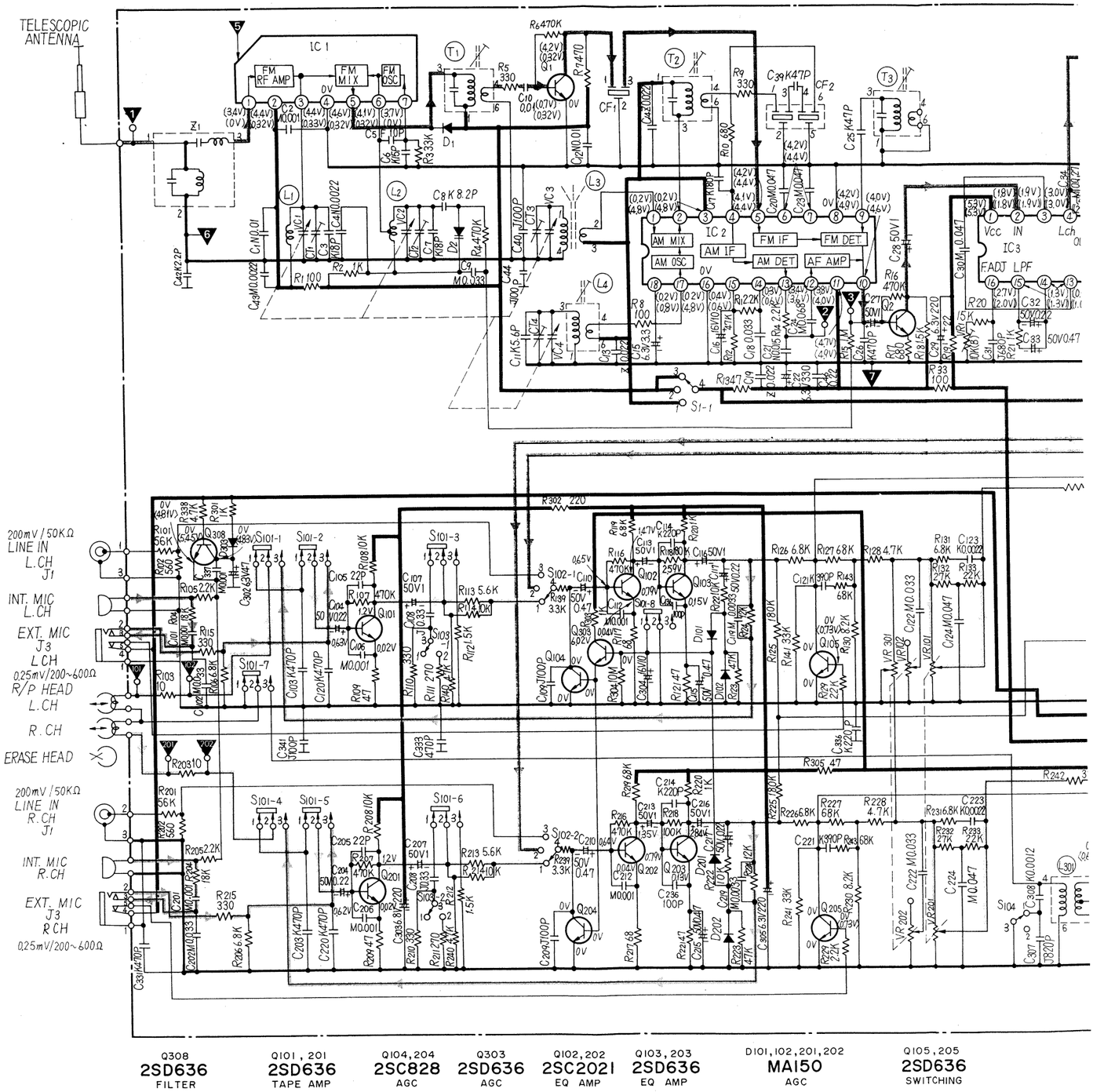


Fig. 12

Fig. 13

<BOTTOM VIEW>





SCHEMATIC DIAGRAM MODEL RX-5025

IC1 **AN7213** FM RF AMP/MIX
D1 **MA150** D. AGC
D2 **MA345** AFC
Q1 **2SC2206** IF AMP
IC2 **AN7220A** FM IF AMP/AM RF IF AMP
Q2 **2SD636** AF AMP
IC3 **RV1BA1330** MPX
D305 **LN220PR** STEREO IND
D306-1~306-5 **LN05287P** LEVEL/BATT IND
IC301 **LB1405** LED

B⊕ Voltage Line
Radio (FM) Signal Line
Tape (PLAYBACK) Signal Line
Tape (RECORD) Signal Line

TELESCOPIC ANTENNA

200mV / 50KΩ LINE IN L.CH J1
INT. MIC L.CH
EXT. MIC J3 L.CH 0.25mV/200~600Ω
R/P HEAD L.CH
R.CH
ERASE HEAD
200mV / 50KΩ LINE IN R.CH J1
INT. MIC R.CH
EXT. MIC J3 R.CH 0.25mV/200~600Ω

420mV/10KΩ LINE OUT L.CH J2
TWEETER CERAMIC SPEAKER 3cm 300Ω
L.CH WOOFER PM DYNAMIC SPEAKER 12cm 3Ω
HEAD PHONE J6 8Ω
R.CH WOOFER PM DYNAMIC SPEAKER 12cm 3Ω
TWEETER CERAMIC SPEAKER 3cm 300Ω
LINE OUT R.CH J2 420mV/10KΩ

BATT UM-1 x 6
AC IN J4

Q308 **2SD636** FILTER
Q101, 201 **2SD636** TAPE AMP
Q104, 204 **2SC828** AGC
Q303 **2SD636** AGC
Q102, 202 **2SC2021** EQ AMP
Q103, 203 **2SD636** EQ AMP
D101, 102, 201, 202 **MA150** AGC
Q105, 205 **2SD636** SWITCHING
Q302 **2SD638** BIAS OSC
D304 **MA1056M** AOC
D301 **MA1068M** REGULATOR
Q301 **2SD638** REGULATOR
IC101 **AN7146M** POWER AMP
D01, 02 **RVDSMIA02LFA** RECT

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM MODEL RX-5025

TELESCOPIC ANTENNA

MICROPHONE (Lch)

MICROPHONE (Rch)

IC1

	FM	AM		FM	AM
1	3.4V	0V	5	4.6V	0.32V
2	4.4V	0.32V	6	4.1V	0.32V
3	4.4V	0.33V	7	3.7V	0V
4	0V	0V			

Q1

	FM	AM
C	4.2V	0.32V
B	0.7V	0.32V
E	0V	0V

Q103

C	2.59V
B	0.79V
E	0.15V

Q102

C	1.47V
B	0.65V
E	0.04V

Q104

C	1.2V
B	0.63V
E	0.02V

Q308

	PLAY	REC
C	0V	4.83V
B	0V	5.45V
E	0V	4.81V

Q205

	PLAY	REC
C	0V	0V
B	0V	0.73V
E	0V	0V

Q105

	PLAY	REC
C	0V	0V
B	0V	0.73V
E	0V	0V

Q301

C	9.0V
B	6.77V
E	6.1V

IC101

1	9.0V	6	2.26V	11	—	16	0V
2	4.54V	7	2.24V	12	2.24V	17	4.52V
3	0V	8	—	13	2.26V	18	8.86V
4	8.14V	9	0V	14	0.75V		
5	0.75V	10	2.32V	15	8.11V		

IC3

	FM	STEREO		FM	STEREO
1	5.3V	5.3V	9	2.5V	0.1V
2	1.8V	1.8V	10	1.8V	1.3V
3	1.9V	1.9V	11	1.3V	1.3V
4	3.0V	3.0V	12	0.1V	1.0V
5	2.9V	2.9V	13	1.3V	1.3V
6	7.5V	7.5V	14	1.3V	1.3V
7	0V	0V	15	1.3V	1.3V
8	0.2V	0.2V	16	2.7V	2.0V

Q2

	FM	AM
C	3.2V	3.3V
B	1.3V	1.4V
E	0.72V	0.75V

IC2

	FM	AM		FM	AM
1	0.2V	4.8V	10	4.0V	4.6V
2	0.2V	4.8V	11	4.7V	4.9V
3	0.2V	4.8V	12	3.8V	4.0V
4	4.2V	4.4V	13	3.4V	3.6V
5	4.1V	4.4V	14	0.3V	0.6V
6	4.2V	4.4V	15	0.4V	0.6V
7	4.2V	4.4V	16	0.3V	0V
8	0V	0V	17	0.2V	4.8V
9	4.2V	4.9V	18	0.2V	0.8V

Q203

C	2.84V
B	0.79V
E	0.13V

Q202

C	1.35V
B	0.64V
E	0.04V

Q303

	PLAY	REC
C	6.02V	6.0V
B	0V	0V
E	0V	0V

Q104, 204

C	0V
B	0V
E	0V

Q201

C	1.2V
B	0.62V
E	0.02V

Q302

	PLAY	REC
C	9.0V	8.13V
B	0V	0.68V
E	0V	0.09V

IC301

1	0.63V	5	2.78V	9	—	13	7.1V
2	0.29V	6	2.78V	10	7.1V	14	7.1V
3	0.29V	7	0V	11	7.1V	15	3.18V
4	8.43V	8	0V	12	7.1V	16	3.98V

BATT. 9V

MOTOR LEAF SWITCH

R/P HEAD

MOTOR

ST. IND

Lch TWEETER 3cm (1 9/16") 3Ω

Lch WOOFER 12cm (4 29/32") 3Ω

Rch TWEETER 3cm (1 9/16") 3Ω

Rch WOOFER 12cm (4 29/32") 3Ω

HEADPHONE

J4: AC IN

MECHANISM PARTS LOCATION

Specification

Pressure of pressure roller	400~600gr
Takeup tension	50±15g
Tension of detect piece	90±20g
Wow & flutter	Less than 0.3% (RMS)
Tape speed fluctuation	±3%

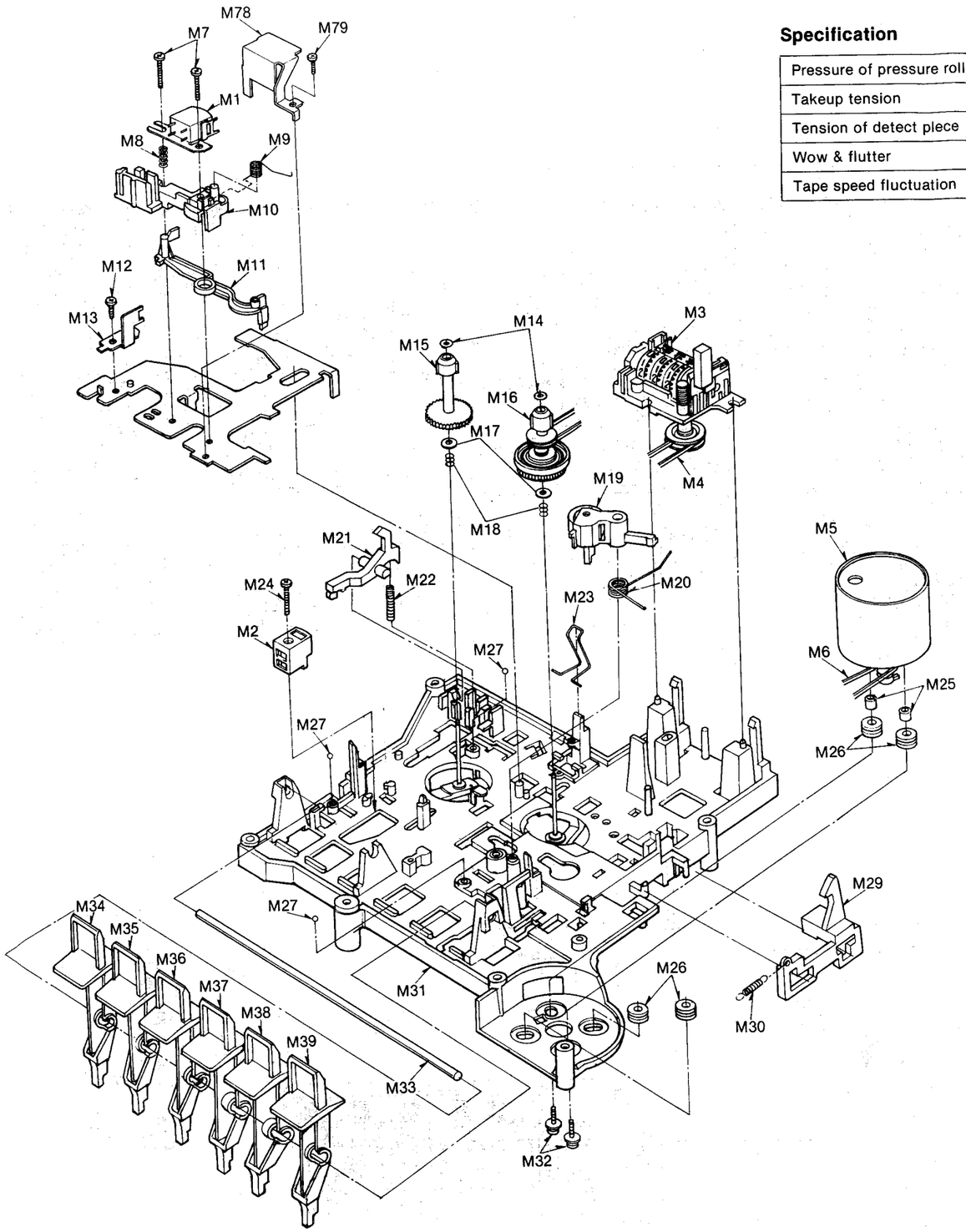


Fig. 14

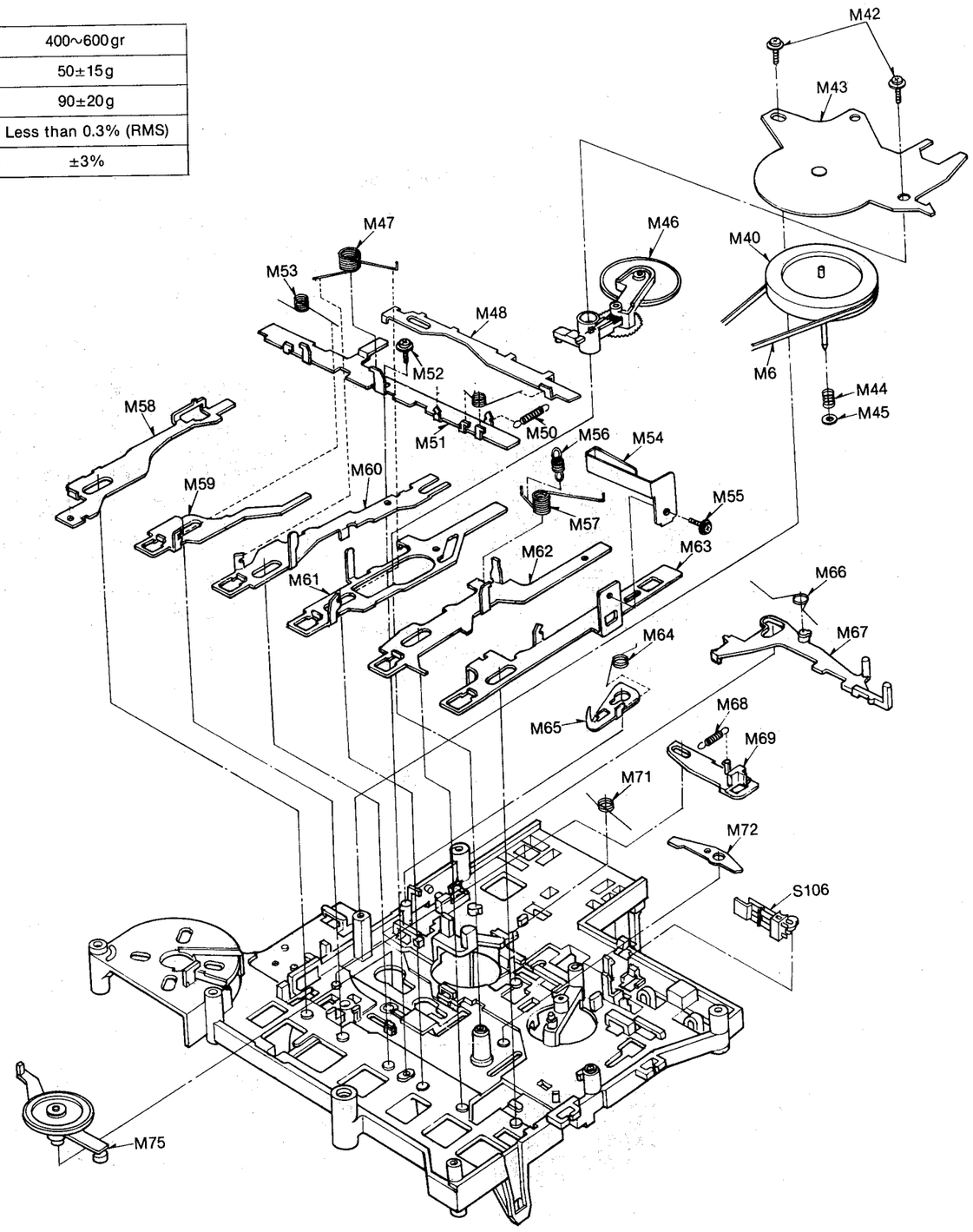


Fig. 15

CABINET PARTS LOCATION

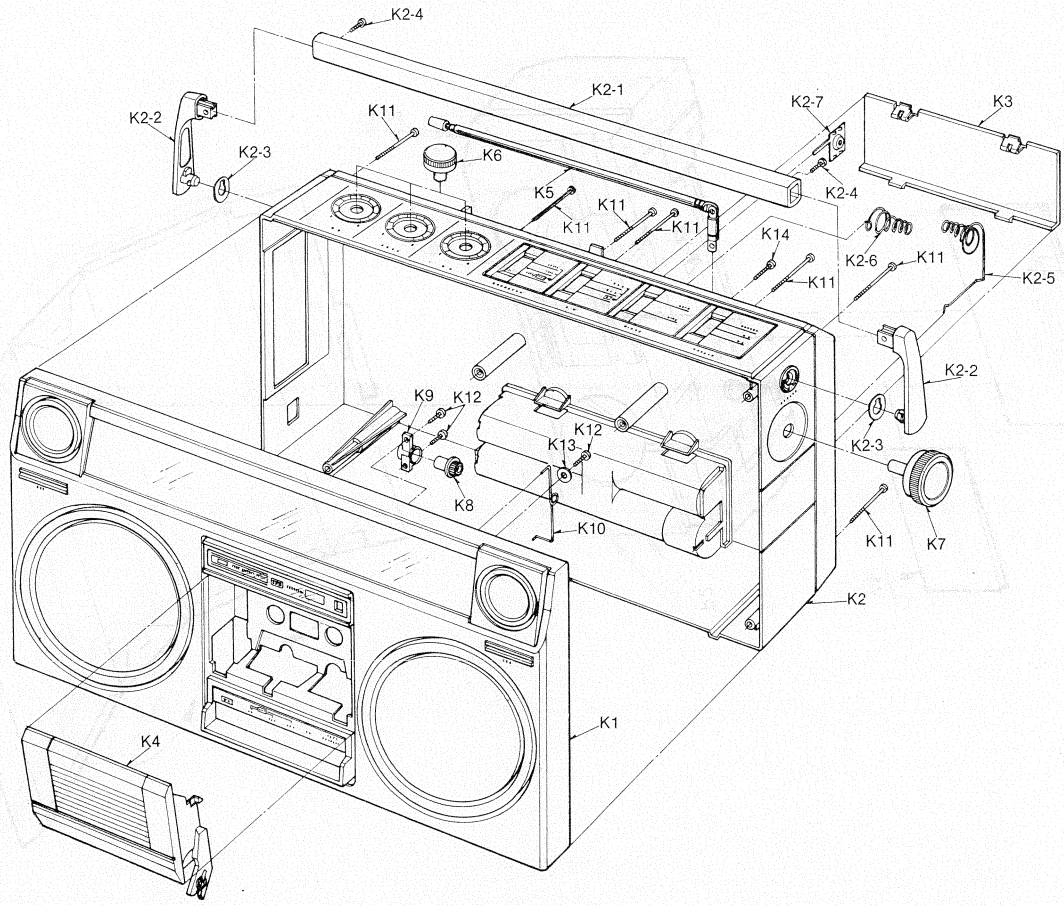


Fig. 16

ELECTRICAL PARTS LOCATION

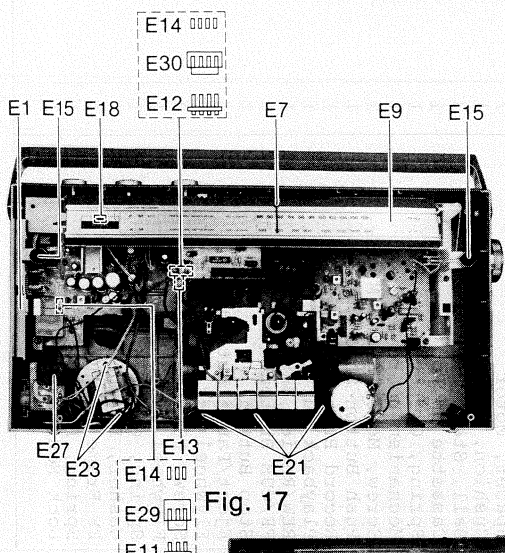


Fig. 17

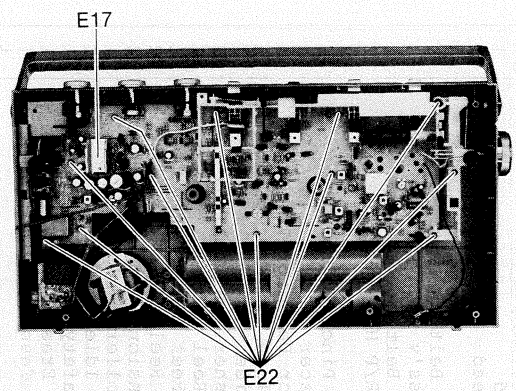


Fig. 18

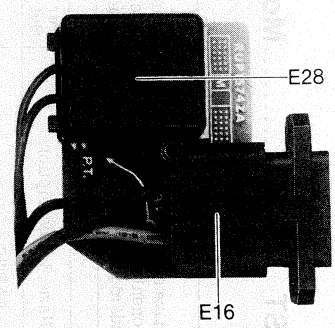


Fig. 19

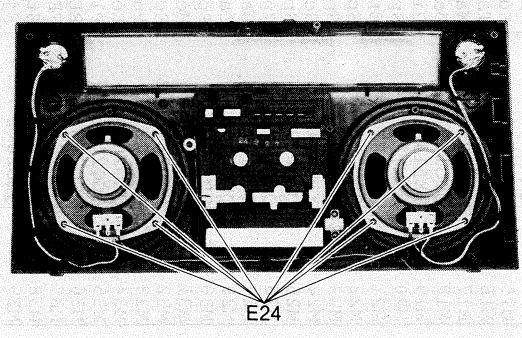


Fig. 20

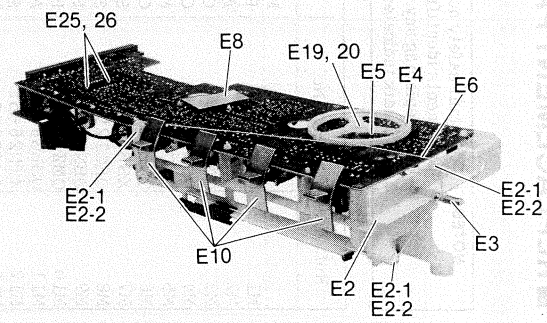


Fig. 21

■REPLACEMENT PARTS LIST .....Model RX-5025

(RD82045262C1)

NOTES: 1.Important safety notice.
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
2.The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		MECHANICAL PARTS		
M1	QWY4133Z	R/P Head	1	
M2	QWY2129	Erase Head	1	
M3	QDC0101	Counter	1	
M4	QDB0167	Counter Belt	1	
M5	QXU0291	Motor Ass'y with Pulley	1	
M6	QDB0323	Capstan Belt	1	
M7	XSB2D10.5	Screw, R/P Head M'tg	2	
M8	QBC1298	Spring	1	
M9	QBN1774	Spring, Pinch Roller	1	
M10	QMZ1255	Head Spacer	1	
M11	QML3672	Auto Stop Detector Lever	1	
M12	XTN26+5F	Screw, Tape Guide M'tg	1	
M13	QMG0062	Tape Guide	1	
M14	QBW2008	Snap Washer Reel Table	2	
M15	QDR1149	Supply Reel Table	1	
M16	QXD0118	Takeup Reel Table Ass'y	1	
M17	QBJ3224	Washer, Reel Table	2	
M18	QBC1272	Back Tension Spring	2	
M19	QXL1401	Pinch Roller Ass'y	1	
M20	QBN1773	Spring, Idler	1	
M21	QML3877	Erase Safety Lever	1	
M22	QBC1300	Spring, Erase Safety Lever	1	
M23	QBN1775	Spring, Cassette Press Down	1	
M24	XTN26+14F	Screw	1	
M25	QMC0079	Spacer, Motor	2	
M26	QBG1420	Cushion, Motor	4	
M27	QDK1012	Ball, Steel	3	
M29	QMR2005	Cassette up Rod	1	
M30	QBT1787	Spring, Cassette Up Rod	1	
M31	QXK2605	Mechanism Board Ass'y	1	
M32	XYN26+B7.5	Screw, Motor Ass'y M'tg	2	
M33	QMN2739	Push Button Shaft	1	
M34	QGO2035	Record Button	1	
M35	QGO2036	Playback Button	1	
M36	QGO2038	REW/Review Button	1	
M37	QGO2037	FF/CUE Button	1	
M38	QGO2039	Stop Button	1	
M39	QGO2040	Eject/Pause Button	1	
M40	QXF0195	Flywheel Ass'y	1	
M42	XTW26+10S	Screw, Flywheel M'tg	2	
M43	QXH0397	Flywheel Plate Ass'y	1	
M44	QBC1302	Spring, Capstan	1	
M45	QBJ3098	Washer, Flywheel	1	
M46	QXL1535	FF Frame Ass'y	1	
M47	QBN1777	Spring, FF Rod	1	
M48	QMR2004	Lock Rod Ass'y	1	

PACKING MATERIALS

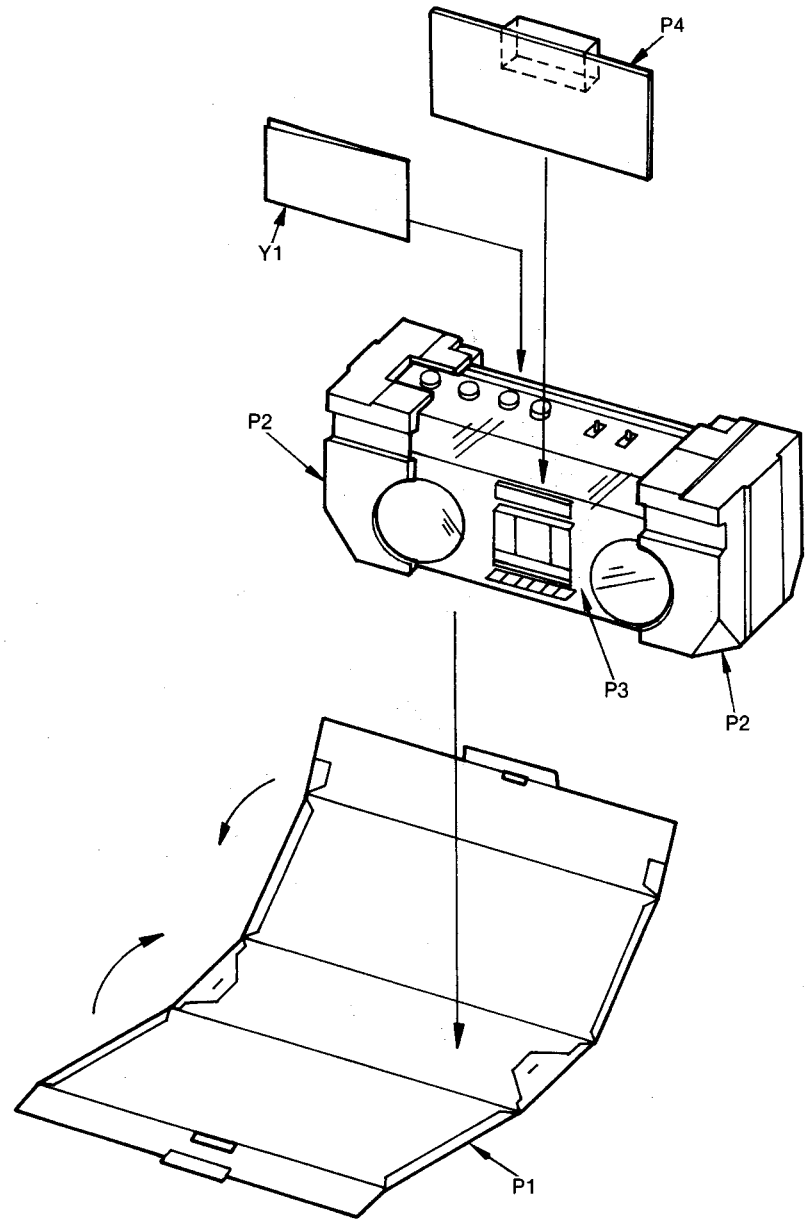


Fig. 22

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M49	QBN1890	Spring, Lock Rod	1	
M50	QBT1521	Spring, Lock Board	1	
M51	QMF2237	Rod, Press Down Board	1	
M52	XTW26+8S	Screw, Rod Press Down Board M'tg	1	
M53	QBN1709	Spring, Stop Rod	1	
M54	QBP1950	Spring, R/P Switch	1	
M55	XTW26+6L	Screw, Rec Switch Spring	1	
M56	QBT1957	Spring, Head Board Slide	1	
M57	QBN1776	Spring, Playback Rod	1	
M58	QMR2003	Eject/Pause Rod	1	
M59	QMR1991	Stop Rod	1	
M60	QMR1990	FF Rod	1	
M61	QMR1989	REW Rod	1	
M62	QMR2002	Playback Rod	1	
M63	QMR2000	Record Rod	1	
M64	QBN1705	Spring, Pause Lock Lever	1	
M65	QML3528	Pause Lock Lever	1	
M66	QBN1880	Spring, Change Lever	1	
M67	QML3869	Change Lever	1	
M68	QBT1956	Spring, Auto Stop Drive Rod	1	
M69	QMR1995	Auto Stop Drive Rod	1	
M71	QBN1891	Spring, FF Assistance	1	
M72	QML3668	Review Lever	1	
M75	QXL1400	Idler Lever Ass'y	1	
M78	QTSK0104	Head Shield Board	1	
M79	XTN2+5F	Head Shield Board M'tg	1	
		INTEGRATED CIRCUITS, TRANSISTORS AND DIODES		
IC1	AN7213	IC	1	
IC2	AN7220A	IC	1	
IC3	RVIBA1330	IC	1	
IC101	AN7146M	IC	1	
IC301	LB1405	IC	1	
Q1	2SC2206B	Transistor	1	
Q2,103,105,203, 205,303,308	2SD636R	Transistor	7	
Q101,102,201,202	2SC2021LNS	Transistor	4	
Q104,204	2SC828	Transistor	2	
Q301,302	2SD638	Transistor	2	
D1,101,102,201, 202,303,306	MA161	Diode (Si)	7	S
D2	MA345	Diode (Si)	1	
D301	RVDRD6R8EB	Diode (Si)	1	S
D304	MA1056	Diode (Si)	1	S
D305	LN220RP	Diode (LED)	1	
D306-1~5	LN05287P	Diode (LED)	1	
D01,02	RVDSM1A02LFA	Diode (Si)	2	
		COILS AND TRANSFORMERS		
L1	RLD4Y44	Antenna Coil, FM	1	
L2	RLO4Y43	Oscillator Coil, FM	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
L3	RLF2V59	Antenna Coil, AM	1	
L4	RLO2M18	Oscillator Coil, AM	1	
L301	QLB0174	Bias Oscillator Coil	1	
T1,3	RLI4M101	FM, IFT	2	
T2	QLI2M102	AM, IFT	1	
T301	RLT5K3M1A	Power Transformer	1	⚠
		VARIABLE RESISTORS		
VR1	EVNM4AA00B14	Preset, 10kΩ (B)	1	S
VR101,201	EWCS1AF15A54	Variable Resistor, 50kΩ (A)	1	
VR102,202	EWCVAAF15A54	Variable Resistor, 50kΩ (A)	1	
VR301	EWHP2AF15G15	Variable Resistor, 100kΩ (G)	1	
VR302	EVNM4AA00B15	Preset, 100kΩ (B)	1	S
		VARIABLE CAPACITOR		
VC1~4	RCV4LC2V1K	Tuning Capacitor (CT1~4)	1	
		CERAMIC FILTER		
CF1	SFM107MA5	Ceramic Filter (10.7MHz)	1	
CF2	RVFSFZ455B	Ceramic Filter (455kHz)	1	
		COMPONENT COMBINATION		
Z1	RXABPMB3	Component Combination (B.P.F)	1	
		SPEAKERS		
	EAS12P126SC	Speaker, 12cm (4-23/32"), 3Ω, Woofer	2	
	EAS3FP03A	Speaker, 3cm (1-3/16"), 300Ω, Tweeter	2	
		SWITCHES		
S1	RST3B18Z	Switch, Band Selector	1	
S101	RSH2J02Z	Switch, Record/Playback	1	
S102	RST3D15Z	Switch, Function Selector	1	
S103	RST2B23Z	Switch, Tape Selector	1	
S104	QSS1210T	Switch, Beat Proof	1	
S106	QSB0254	Switch, Motor, Leaf	1	
S107	RST2A05Z	Switch, Meter Selector	1	
		JACKS		
J1,2	RJF1084Z	Jack, LINE IN/OUT L.R	1	
J3	RJJ1D7Z	Jack, EXT MIC	2	
J4	RJJ112Z	Jack, AC Socket	1	⚠
J6	RJJ1E2Z	Jack, Head Phone	1	
		RESISTORS (Value is in OHMS)		
R1	ERD25FJ101	100 1/4W Carbon	1	S
R2	ERD25FJ102	1 k " "	1	S
R3	ERD25FJ333	33 k " "	1	S
R4	ERD25TJ474	470 k " "	1	S
R5	ERD25FJ101	100 " "	1	S
R6	ERD25TJ474	470 k " "	1	S
R7	ERD25FJ471	470 " "	1	S
R8	ERD25FJ101	100 " "	1	S
R9	ERD25FJ331	330 " "	1	S
R10	ERD25FJ681	680 " "	1	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R11	ERD25FJ222	2.2 k 1/4W Carbon	1	S
R12	ERD25FJ473	47 k " "	1	S
R13	ERD25FJ470	47 " "	1	S
R14	ERD25FJ222	2.2 k " "	1	S
R15	ERD25TJ105	1 M " "	1	S
R16	ERD25TJ474	470 k " "	1	S
R17	ERD25FJ681	680 " "	1	S
R18	ERD25FJ152	1.5 k " "	1	S
R19	ERD25FJ220	22 " "	1	S
R20	ERD25FJ153	15 k " "	1	S
R21	ERD25FJ102	1 k " "	1	S
R22	ERD25TJ104	100 k " "	1	S
R23,24	ERD25FJ392	3.9 k " "	2	S
R25,26	ERD25FJ153	15 k " "	2	S
R27,28	ERD25FJ391	390 " "	2	S
R29	ERD25FJ471	470 " "	1	S
R30	ERD25FJ391	390 " "	1	S
R31	ERD25FJ223	22 k " "	1	S
R32	ERD25TJ104	100 k " "	1	S
R33	ERD25FJ101	100 " "	1	S
R101	ERD25FJ563	56 k " "	1	S
R102	ERD25FJ561	560 " "	1	S
R103	ERD25FJ100	10 " "	1	S
R104	ERD25FJ183	18 k " "	1	S
R105	ERD25FJ222	2.2 k " "	1	S
R106	ERD25FJ682	6.8 k " "	1	S
R107	ERD25TJ474	470 k " "	1	S
R108	ERD25FJ103	10 k " "	1	S
R109	ERD25FJ470	47 " "	1	S
R110	ERD25FJ331	330 " "	1	S
R111	ERD25FJ271	270 " "	1	S
R112	ERD25FJ152	1.5 k " "	1	S
R113	ERD25FJ562	5.6 k " "	1	S
R114	ERD25FJ103	10 k " "	1	S
R115	ERD25FJ331	330 " "	1	S
R116	ERD25TJ474	470 k " "	1	S
R117	ERD25FJ680	68 " "	1	S
R118	ERD25TJ184	180 k " "	1	S
R119	ERD25FJ682	6.8 k " "	1	S
R120	ERD25FJ102	1 k " "	1	S
R121	ERD25FJ470	47 " "	1	S
R122	ERD25FJ103	10 k " "	1	S
R123	ERD25FJ473	47 k " "	1	S
R124	ERD25FJ123	12 k " "	1	S
R125	ERD25TJ184	180 k " "	1	S
R126	ERD25FJ682	6.8 k " "	1	S
R127	ERD25TJ683	68 k " "	1	S
R128	ERD25FJ472	4.7 k " "	1	S
R129	ERD25FJ222	2.2 k " "	1	S
R130	ERD25FJ822	8.2 k " "	1	S
R131	ERD25FJ682	6.8 k " "	1	S
R132	ERD25FJ273	27 k " "	1	S
R133	ERD25FJ223	22 k " "	1	S
R134	ERD25FJ820	82 " "	1	S
R135	ERD25FJ473	47 k " "	1	S
R137	ERD25FJ010	1 " "	1	S
R138	ERD25FJ151	150 1/4W Carbon	1	S
R139	ERD25FJ332	3.3 k " "	1	S
R140	ERD25FJ473	47 k " "	1	S
R141	ERD25FJ333	33 k " "	1	S
R142	ERD25FJ331	330 " "	1	S
R143	ERD25TJ683	68 k " "	1	S
R201	ERD25FJ563	56 k " "	1	S
R202	ERD25FJ561	560 " "	1	S
R203	ERD25FJ100	10 " "	1	S
R204	ERD25FJ183	18 k " "	1	S
R205	ERD25FJ222	2.2 k " "	1	S
R206	ERD25FJ682	6.8 k " "	1	S
R207	ERD25TJ474	470 k " "	1	S
R208	ERD25FJ103	10 k " "	1	S
R209	ERD25FJ470	47 " "	1	S
R210	ERD25FJ331	330 " "	1	S
R211	ERD25FJ271	270 " "	1	S
R212	ERD25FJ152	1.5 k " "	1	S
R213	ERD25FJ562	5.6 k " "	1	S
R214	ERD25FJ103	10 k " "	1	S
R215	ERD25FJ331	330 " "	1	S
R216	ERD25TJ474	470 k " "	1	S
R217	ERD25FJ680	68 " "	1	S
R218	ERD25TJ184	180 k " "	1	S
R219	ERD25FJ682	6.8 k " "	1	S
R220	ERD25FJ102	1 k " "	1	S
R221	ERD25FJ470	47 " "	1	S
R222	ERD25FJ103	10 k " "	1	S
R223	ERD25FJ473	47 k " "	1	S
R224	ERD25FJ123	12 k " "	1	S
R225	ERD25TJ184	180 k " "	1	S
R226	ERD25FJ682	6.8 k " "	1	S
R227	ERD25TJ683	68 k " "	1	S
R228	ERD25FJ472	4.7 k " "	1	S
R229	ERD25FJ222	2.2 k " "	1	S
R230	ERD25FJ822	8.2 k " "	1	S
R231	ERD25FJ222	2.2 k " "	1	S
R232	ERD25FJ273	27 k " "	1	S
R233	ERD25FJ223	22 k " "	1	S
R234	ERD25FJ820	82 " "	1	S
R235	ERD25FJ473	47 k " "	1	S
R237	ERD25FJ010	1 " "	1	S
R238	ERD25FJ151	150 " "	1	S
R239	ERD25FJ332	3.3 k " "	1	S
R240	ERD25FJ473	47 k " "	1	S
R241	ERD25FJ333	33 k " "	1	S
R242	ERD25FJ331	330 " "	1	S
R243	ERD25TJ683	68 k " "	1	S
R301	ERD25FJ102	1 k " "	1	S
R302	ERD25FJ221	220 " "	1	S
R303	ERD25FJ102	1 k " "	1	S
R305	ERD25FJ470	47 " "	1	S
R306	ERD25FJ101	100 " "	1	S
R307	ERD25FJ473	47 k " "	1	S
R308	ERD25FJ221	220 " "	1	S
R309,310	ERD25FJ100	10 " "	2	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R311	ERD25FJ101	100 1/4W Carbon	1	S
R312	ERD25FJ122	1.2 k " "	1	S
R313	ERD25TJ824	820 k " "	1	S
R314	ERD25FJ470	47 " "	1	S
R315	ERD25FJ102	1 k " "	1	S
R316	ERD25FJ273	27 k " "	1	S
R318	ERD25FJ103	10 k " "	1	S
R319	ERD25FJ153	15 k " "	1	S
R320	ERD25TJ104	100 k " "	1	S
R338	ERD25FJ472	4.7 k " "	1	S
		CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)		
C1	ECBT1E103NX	0.01 25V Ceramic(Cylinder)	1	
C2	ECKD1H101KB	100 P 50V Ceramic	1	
C3	ECBT1H180J	18 P " Ceramic(Cylinder)	1	
C4	ECBT1H222MX	0.0022 " "	1	
C5	ECCD1H100KC	10 P " Ceramic	1	
C6	ECCD1H150KC	15 P " "	1	
C7	ECBT1H180J	18 P " Ceramic(Cylinder)	1	
C8	ECBT1H8R2KC	8.2 P " "	1	
C9	ECFVD333MD	0.033 25V Semi-Conductor	1	
C10	ECBT1E103NX	0.01 " Ceramic(Cylinder)	1	
C11	ECBT1H5R6K	5.6 P 50V "	1	
C12	ECBT1E103NX	0.01 25V "	1	
C13,14	ECKD1H223ZF	0.022 50V Ceramic	2	
C15	ECEA1CS330	33 16V Electrolytic	1	S
C16	ECEA1HS100	10 50V "	1	S
C17	ECKD1H181KB	180 P " Ceramic	1	
C18	ECFVD333MD	0.033 25V Semi-Conductor	1	
C19	ECKD1H223ZF	0.022 50V Ceramic	1	
C20	ECFVD473MD	0.047 25V Semi-Conductor	1	
C21	ECBT1E153NX	0.015 " Ceramic(Cylinder)	1	
C22	ECEA1AS331	330 10V Electrolytic	1	S
C23	ECFVD473MD	0.047 25V Semi-Conductor	1	
C24	ECFVD683MD	0.068 " "	1	
C25	ECBT1H470J	47 P 50V Ceramic(Cylinder)	1	
C26	ECKD1H471KB	470 P " Ceramic	1	
C27,28	ECEA50Z1	1 " Electrolytic	2	S
C29	ECEA1AS221	220 10V "	1	S
C30	ECFVD473MD	0.047 25V Semi-Conductor	1	
C31	ECQS2B681JZ	680 P 100V Styrol	1	
C32	ECEA50ZR22	0.22 " Electrolytic	1	
C33	ECEA50ZR47	0.47 " "	1	
C34,35	ECFVD273MD	0.027 25V Semi-Conductor	2	
C36,37	ECEA50ZR33	0.33 50V Electrolytic	2	
C38	ECEA50Z3R3	3.3 " "	1	S
C39	ECCD1H470K	47 P " Ceramic	1	
C40	ECBT1H101J	100 P " Ceramic(Cylinder)	1	
C42	ECBT1H2R2K	2.2 P " "	1	
C43	ECBT1H222MX	0.0022 " "	1	
C44	ECBT1H101J	100 P " "	1	
C46	ECQV05224JZ	0.22 " Styrol	1	
C101	ECBT1E103NX	0.01 25V Ceramic(Cylinder)	1	
C102	ECFVD333MD	0.033 " Semi-Conductor	1	
C103	ECBT1H471KB	470 P 50V Ceramic(Cylinder)	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C104	ECEA50ZR22	0.22 50V Electrolytic	1	
C105	ECBT1H220J	22 P " Ceramic(Cylinder)	1	
C106	ECBT1H102MD	0.001 " "	1	
C107	ECEA50Z1	1 " Electrolytic	1	S
C108	ECQV05334JZ	0.33 " Styrol	1	
C109	ECBT1H101J	100 P " Ceramic(Cylinder)	1	
C110	ECEA50ZR47	0.47 " Electrolytic	1	
C112	ECBT1H102MD	0.001 " Ceramic(Cylinder)	1	
C113	ECEA50Z1	1 " Electrolytic	1	S
C114	ECBT1H221KB	220 P " Ceramic(Cylinder)	1	
C115	ECEA50ZR47	0.47 " Electrolytic	1	
C116	ECEA50Z1	1 " "	1	S
C117	ECEA50ZR22	0.22 " "	1	
C119	ECBT1H332MX	0.0033 " Ceramic(Cylinder)	1	
C120	ECBT1H471KB	470 P " "	1	
C121	ECKD1H391KB	390 P " Ceramic	1	
C122	ECFVD473MD	0.047 25V Semi-Conductor	1	
C123	ECFVD222KV	0.0022 " "	1	
C124	ECFVD473MD	0.047 " "	1	
C125	ECFVD104MD	0.1 " "	1	
C126	ECFVD683MD	0.068 " "	1	
C127	ECBT1H472MX	0.0047 50V Ceramic(Cylinder)	1	
C128	ECEA1CS330	33 16V Electrolytic	1	S
C129	ECBT1H681KB	680 P 50V Ceramic(Cylinder)	1	
C130	ECBT1H101J	100 P " "	1	
C132	ECQV05224JZ	0.22 " Styrol	1	
C133	ECEA1AS101	100 10V Electrolytic	1	S
C135	ECKD1H101KB	100 P 50V Ceramic	1	
C136	ECBT1H101J	100 P " "	1	
C201	ECBT1E103NX	0.01 25V Ceramic(Cylinder)	1	
C202	ECFVD333MD	0.033 " Semi-Conductor	1	
C203	ECBT1H471KB	470 P 50V Ceramic(Cylinder)	1	
C204	ECEA50ZR22	0.22 " Electrolytic	1	
C205	ECBT1H220J	22 P " Ceramic(Cylinder)	1	
C206	ECBT1H102MD	0.001 " "	1	
C207	ECEA50Z1	1 " Electrolytic	1	S
C208	ECQV05334JZ	0.33 " Styrol	1	
C209	ECBT1H101J	100 P " Ceramic(Cylinder)	1	
C210	ECEA50ZR47	0.47 " Electrolytic	1	
C212	ECBT1H102MD	0.001 " Ceramic(Cylinder)	1	
C213	ECEA50Z1	1 " Electrolytic	1	S
C214	ECBT1H221KB	220 P " Ceramic(Cylinder)	1	
C215	ECEA50ZR47	0.47 " Electrolytic	1	
C216	ECEA50Z1	1 " "	1	S
C217	ECEA50ZR22	0.22 " "	1	
C219	ECBT1H332KB	0.0033 " Ceramic(Cylinder)	1	
C220	ECBT1H471KB	470 P " "	1	
C221	ECKD1H391KB	390 P " Ceramic	1	
C222	ECFVD473MD	0.047 25V Semi-Conductor	1	
C223	ECFVD222KV	0.0022 " "	1	
C224	ECFVD473MD	0.047 " "	1	
C225	ECFVD104MD	0.1 " "	1	
C226	ECFVD683MD	0.068 " "	1	
C227	ECBT1H472MX	0.0047 50V Ceramic(Cylinder)	1	
C228	ECEA1CS330	33 16V Electrolytic	1	S
C229	ECBT1H681KB	680 P 50V Ceramic(Cylinder)	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C230	ECBT1H101J	100 P 50V Ceramic(Cylinder)	1	
C232	ECQV05224JZ	0.22 " Styrol	1	
C233	ECEA1ES101	100 25V Electrolytic	1	S
C235	ECKD1H101KB	100 P 50V Ceramic	1	
C236	ECBT1H101J	100 P " Ceramic(Cylinder)	1	
C302	ECEA50Z3R3	3.3 " Electrolytic	1	S
C303	ECEA1AS221	220 10V "	1	S
C304	ECEA1HS100	10 50V "	1	S
C305	ECEA1AS221	220 10V "	1	S
C306	ECBT1E103NX	0.01 25V Ceramic(Cylinder)	1	
C307	ECQM1H103KZ	0.01 50V Polyester	1	
C308	ECQM1H122KZ	0.0012 " "	1	
C309	ECFVD333MD	0.033 25V Semi-Conductor	1	
C310	ECQM1H183MZ	0.018 50V Polyestor	1	
C312	ECEA1CS221	220 16V Electrolytic	1	S
C313	ECBT1E103NX	0.01 25V Ceramic(Cylinder)	1	
C314	ECEA1AS331	330 10V Electrolytic	1	S
C316	ECEA1CS221	220 16V "	1	S
C317	ECEA1AS101	100 10V "	1	S
C318	ECBT1H331KB	330 P 50V Ceramic(Cylinder)	1	
C321	ECEA1CS330	33 16V Electrolytic	1	S
C322	ECEA50Z3R3	3.3 50V "	1	S
C323	ECBT1H102MD	0.001 " Ceramic(Cylinder)	1	
C324	ECEA1HS100	10 " Electrolytic	1	S
C325	ECBT1H221KB	220 P " Ceramic(Cylinder)	1	
C331	ECBT1H471KB	470 P " "	1	
C333	ECBT1H471KB	470 P " "	1	
C334	ECBT1H221KB	220 P " "	1	
C335	ECBT1H101J	100 P " "	1	
C336	ECBT1H221KB	220 P " "	1	
C338,339	ECBT1H121J	120 P " "	2	
C340	ECBT1H101J	100 P " "	1	
		CABINET PARTS		
K1	RYMX5025M8	Front Cabinet Ass'y	1	
K2	RYFX5025M7	Rear Cabinet Ass'y	1	
K2-1	RKX250Z	Handle	1	
K2-2	RKX192Y	Arm, Handle	2	
K2-3	RKX165Z	Spacer, Handle	2	
K2-4	XTN3+8GFZ	Screw, Handle M'tg	2	
K2-5	RJC955Z	Spring, Battery (+) (-) Side	1	
K2-6	QBN8009A	Spring, Battery (-) Side	1	
K2-7	RJC205Z	Terminal, Battery (+) Side	1	
K3	RYNX5025N7	Battery Cover Ass'y	1	
K4	RYQX5025M	Cassette Panel Ass'y	1	
K5	XEAQCR228EAN	Telescopic Antenna	1	
K6	RBN612Z	Knob, Volume (Tone, Volume, Balance)	3	
K7	RBN613Z	Knob, Tuning	1	
K8	RDG5697Z	Soft Gear	1	
K9	RME297Z	Gear Plumb	1	
K10	RUS468Z	Spring	1	
K11	XTN3+45G	Screw, Cabinet M'tg	7	
K12	XTV3+8G	Screw, Gear Plumb M'tg	3	
K13	XWF3F12	Washer	1	
K14	XSN3+14BNS	Screw, Telescopic Antenna M'tg	1	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		ELECTRICAL PARTS		
E1	RKE414Y	Jack Board	1	
E2	RZAX5025N	Dial Chassis Ass'y	1	
E2-1	QDP1678	Roller	3	
E2-2	QMN8001	Roller Shaft	3	
E3	RDF233Z	Shaft, Tuning	1	
E4	RDD721Z	Drum, Dial	1	
E5	QBT1320	Spring, Dial	1	
E6	RDZ05Z	Cord, Dial (1000mm)	1 ROLL	
E7	RDP241Z	Pointer	1	
E8	RMC607Z	Shield Plate	1	
E9	RYDX5025M	Scale, Dial	1	
E10	RBS202Z	Lever, Band etc.	4	
E11	QJP1921TN	Plug, 3 Pin	2	
E12	QJP1986TN	Plug, 4 Pin	1	
E13	RJP4G4Z	Plug, 4 Pin	1	
E14	QJT1054	Contact	10	
E15	RJM142Z	Built-in Microphone	2	
E16	RUV482Z	Cover, AC Socket	1	⚠
E17	RMY160Z	Heat Shink	1	
E18	RMP185Z	LED Holder	1	
E19	XSN26+5	Screw, Drum Dial M'tg	1	S
E20	XWG26	Washer	1	S
E21	XTN3+30GR	Screw, Mechanism M'tg	4	
E22	XTV3+12GR	Screw, P.B.W. M'tg	13	
E23	XTW3+12GR	Screw, Power Transformer M'tg	2	
E24	XTW3+8G	Screw, Speaker M'tg	9	
E25	XSN3+10S	Screw, Heat Shink M'tg	2	S
E26	XWG3	Washer	2	S
E27	RUV598Z	Cover (A)	1	⚠
E28	RUV599Z	Cover (B)	1	⚠
E29	RJS3L1Z	Socket, 3 Pin	1	
E30	RJS4L1Z	Socket, 4 Pin	1	
		ACCESSORY		
A1	RJA22Y	AC Cord	1	⚠
		PACKING MATERIALS		
P1	RPK1317Z	Gift Box	1	
P2	RPN9406Z	Pad Complete (L, R Side)	1	
P3	XZB45X75A02	Polyethylene Cover	1	
P4	QPSK1110	Pad	1	
		PRINTED MATERIAL		
Y1	RQX6863Z	Instruction Book	1	